

```

graph LR
    2[NEWS INFORMATION DIVISION UNIT] --> 3[USEFUL ARTICLE SELECTION UNIT]
    3 --> 4[NEWS INFORMATION RE-EDITING UNIT]
    subgraph 1 [NEWS INFORMATION PRESENTING DEVICE]
        2
        3
        4
    end
  
```

NEWS INFORMATION PRESENTING DEVICE

FIG. 1

00227-628460

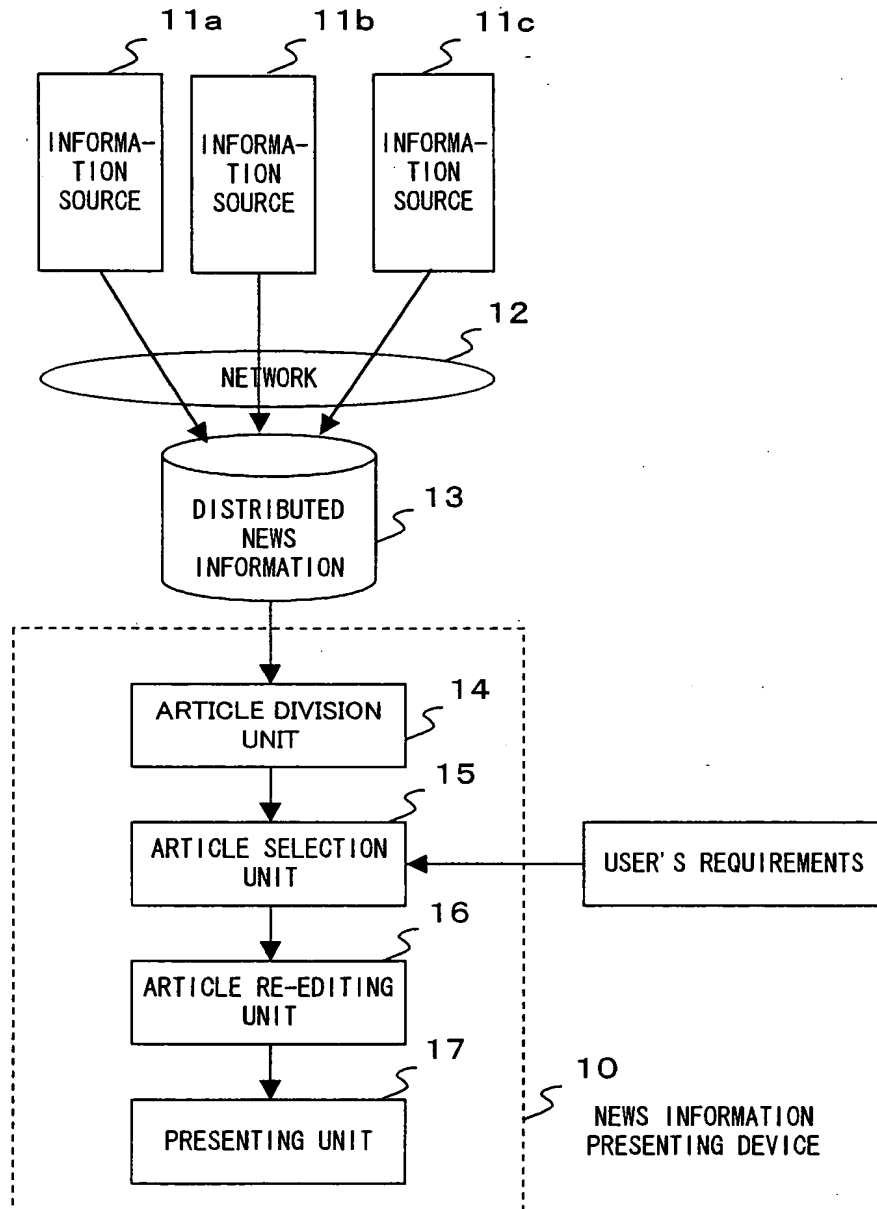


FIG. 2

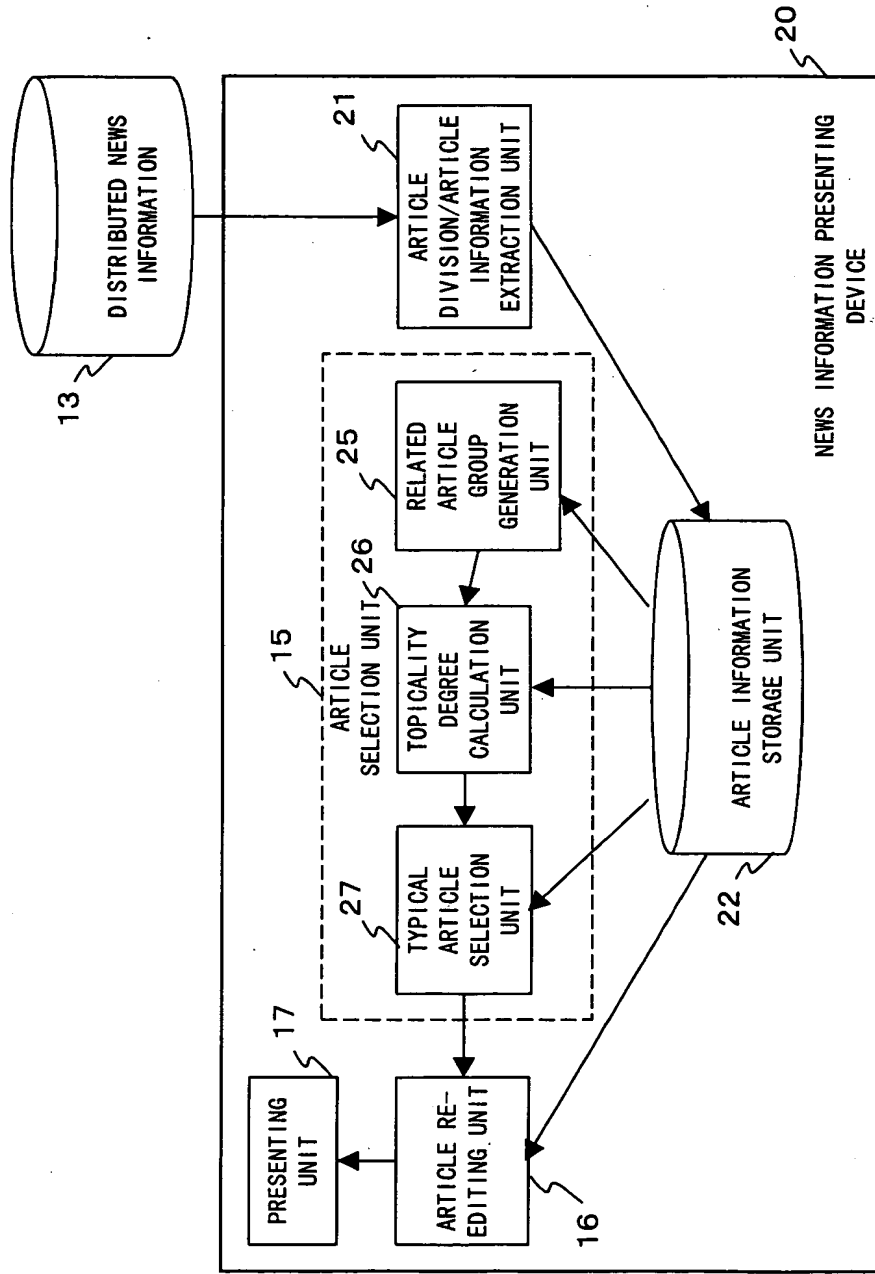


FIG. 3

```
graph TD; START([START]) --> S1[READS NEWS INFORMATION.]; S1 --> S2[ANALYZES THE DOCUMENT FORMAT OF THE NEWS INFORMATION.]; S2 --> S3[EXTRACTS PORTIONS CORRESPONDING TO ARTICLES.]; S3 --> S4[BREAK DOWN THE PORTIONS INTO INDIVIDUAL ARTICLES.]; S4 --> S5[EXTRACTS THE INFORMATION SOURCE, DISTRIBUTION DATE, TITLE AND TEXT OF EACH ARTICLE.]; S5 --> S6[GENERATES AN ARTICLE BASED ON THE EXTRACTED INFORMATION AND STORES IT.]; S6 --> END([END]);
```

The flowchart illustrates the process of generating an article from news information. It begins with a 'START' terminal, followed by six sequential steps (S1 to S6) represented by rectangular boxes, and ends with an 'END' terminal. The steps are: S1: READS NEWS INFORMATION.; S2: ANALYZES THE DOCUMENT FORMAT OF THE NEWS INFORMATION.; S3: EXTRACTS PORTIONS CORRESPONDING TO ARTICLES.; S4: BREAK DOWN THE PORTIONS INTO INDIVIDUAL ARTICLES.; S5: EXTRACTS THE INFORMATION SOURCE, DISTRIBUTION DATE, TITLE AND TEXT OF EACH ARTICLE.; S6: GENERATES AN ARTICLE BASED ON THE EXTRACTED INFORMATION AND STORES IT.

END

**Figure 1**

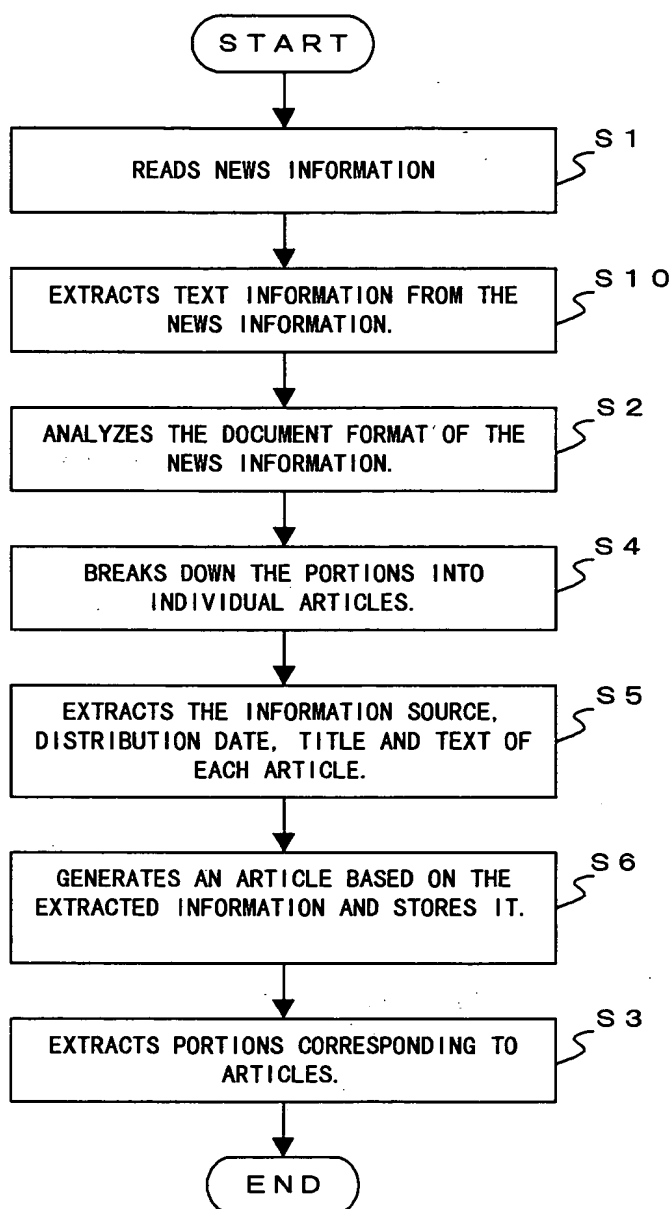


FIG. 5

|  |
|--|
| ARTICLE ID                               |
| INFORMATION SOURCE                       |
| DISTRIBUTION DATA                        |
| TITLE OF ARTICLE                         |
| TEXT OF ARTICLE                          |
| GRAPHIC DATA                             |
| SUPPLEMENTARY INFORMATION<br>(URL, etc.) |
| LENGTH OF ARTICLE                        |

**F I G. 6**

OO. A SPACE-SAVING DESKTOP COMPUTER WITH 15-INCH MONITOR, WITH A PRICE OF LESS THAN 100,000 YEN.

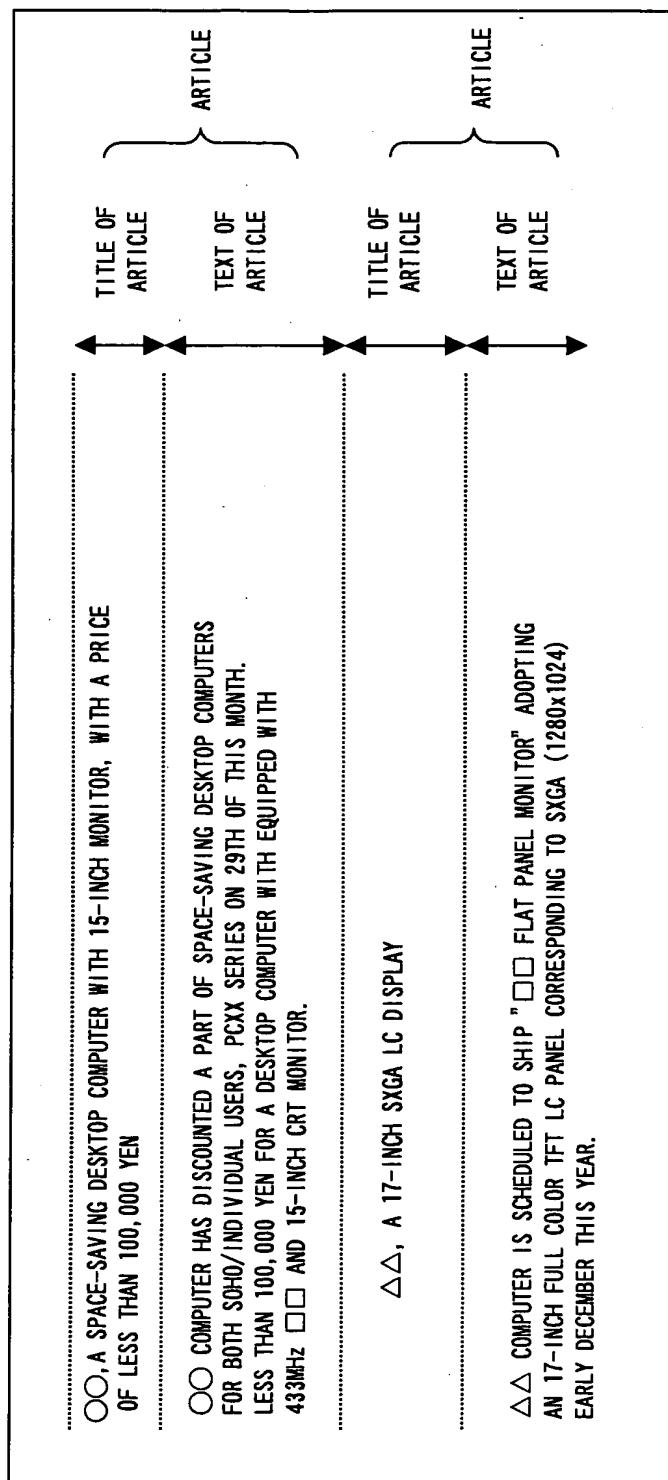
○○ COMPUTER HAS DISCOUNTED A PART OF SPACE-  
SAVING DESKTOP COMPUTERS FOR BOTH  
SCHO/INDIVIDUAL USERS, PCXX SERIES ON 29TH OF THIS MONTH. LESS THAN 100,000 YEN  
FOR A DESKTOP COMPUTER WITH EQUIPPED WITH 433MNZ □□ AND 15-INCH CRT MONITOR.

**△△, A 17-INCH SXGA LC DISPLAY**

△△ COMPUTER IS SCHEDULED TO SHIP "□□ FLAT PANEL MONITOR" ADOPTING AN 17-INCH FULL COLOR TFT LC PANEL CORRESPONDING TO SXGA (1280x1024) EARLY DECEMBER THIS YEAR.

FIG. 7

| Year | 1960 | 1961 | 1962 | 1963 | 1964 | 1965 | 1966 | 1967 | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 | 2041 | 2042 | 2043 | 2044 | 2045 | 2046 | 2047 | 2048 | 2049 | 2050 | 2051 | 2052 | 2053 | 2054 | 2055 | 2056 | 2057 | 2058 | 2059 | 2060 | 2061 | 2062 | 2063 | 2064 | 2065 | 2066 | 2067 | 2068 | 2069 | 2070 | 2071 | 2072 | 2073 | 2074 | 2075 | 2076 | 2077 | 2078 | 2079 | 2080 | 2081 | 2082 | 2083 | 2084 | 2085 | 2086 | 2087 | 2088 | 2089 | 2090 | 2091 | 2092 | 2093 | 2094 | 2095 | 2096 | 2097 | 2098 | 2099 | 2100 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1960 | 1961 | 1962 | 1963 | 1964 | 1965 | 1966 | 1967 | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 | 2041 | 2042 | 2043 | 2044 | 2045 | 2046 | 2047 | 2048 | 2049 | 2050 | 2051 | 2052 | 2053 | 2054 | 2055 | 2056 | 2057 | 2058 | 2059 | 2060 | 2061 | 2062 | 2063 | 2064 | 2065 | 2066 | 2067 | 2068 | 2069 | 2070 | 2071 | 2072 | 2073 | 2074 | 2075 | 2076 | 2077 | 2078 | 2079 | 2080 | 2081 | 2082 | 2083 | 2084 | 2085 | 2086 | 2087 | 2088 | 2089 | 2090 | 2091 | 2092 | 2093 | 2094 | 2095 | 2096 | 2097 | 2098 | 2099 | 2100 |      |



F I G. 8



05: ○○, A SPACE-SAVING DESKTOP COMPUTER WITH 15-INCH  
MONITOR, WITH A PRICE OF LESS THAN 100,000 YEN.

<http://www.○○.co.jp/>

○○ COMPUTER HAS DISCOUNTED A PART OF SPACE-SAVING DESKTOP  
COMPUTERS FOR BOTH SOHO/INDIVIDUAL USERS, PCXX SERIES ON 29TH OF  
THIS MONTH. LESS THAN 100,000 YEN FOR A DESKTOP COMPUTER WITH  
EQUIPPED WITH 433MHz □□ AND 15-INCH CRT MONITOR.

06: △△, A 17-INCH SXGA LC DISPLAY

<http://www.△△.co.jp/>

△△ COMPUTER IS SCHEDULED TO SHIP "□□ FLAT PANEL MONITOR" ADOPTING AN 17-  
INCH FULL COLOR TFT LC PANEL CORRESPONDING TO SXGA (1280x1024) EARLY  
DECEMBER THIS YEAR.

FIG. 9

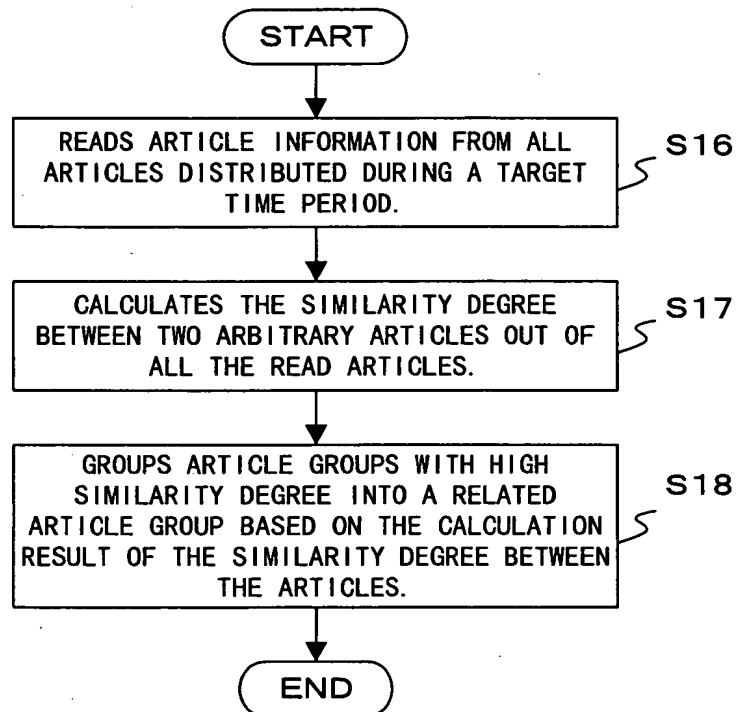




```
graph TD; START([START]) --> S11[RECEIVES THE INPUT OF A TARGET TIME PERIOD.]; S11 --> S12[GENERATES RELATED ARTICLE GROUPS.]; S12 --> S13[CALCULATES THE TOPICALITY DEGREE OF EACH RELATED ARTICLE GROUP.]; S13 --> S14[SELECTS USEFUL ARTICLES.]; S14 --> END([END]);
```

The flowchart illustrates the process of selecting useful articles based on a target time period. It begins with a 'START' terminal, followed by four sequential steps: receiving input, generating article groups, calculating topicality, and selecting useful articles. The process concludes at an 'END' terminal.

END

[illegible]

**FIG. 13**

FIG. 14

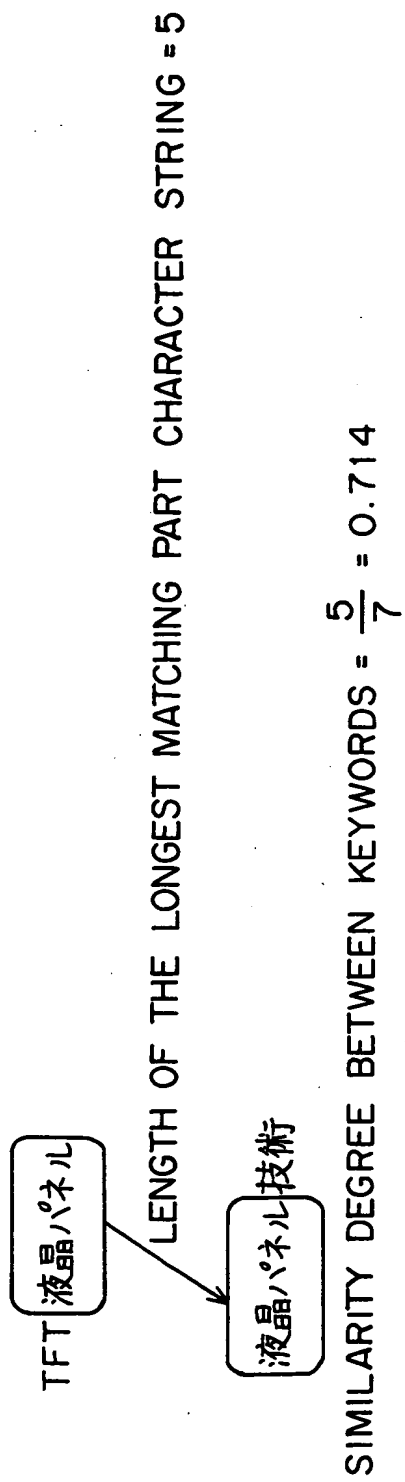


FIG. 15

00227-223160

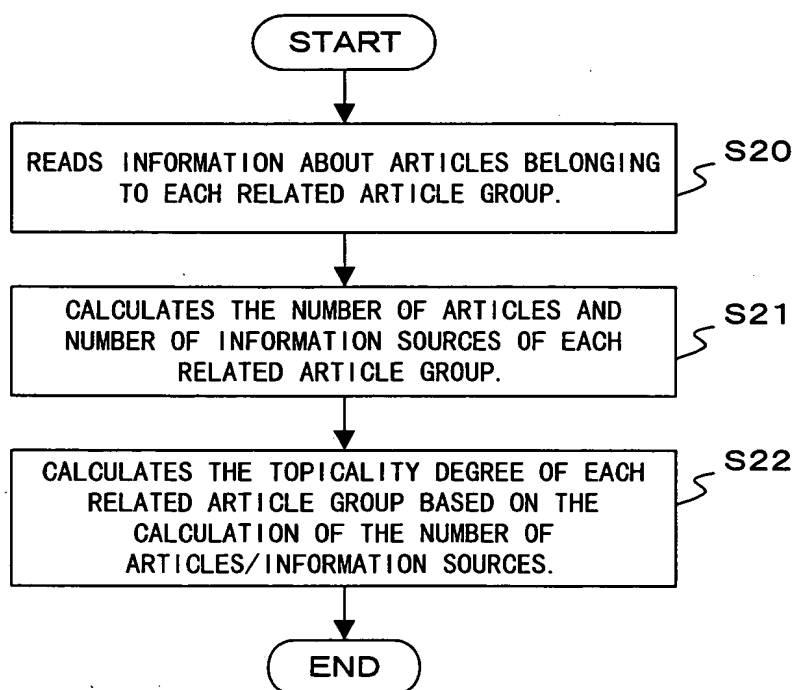


FIG. 16



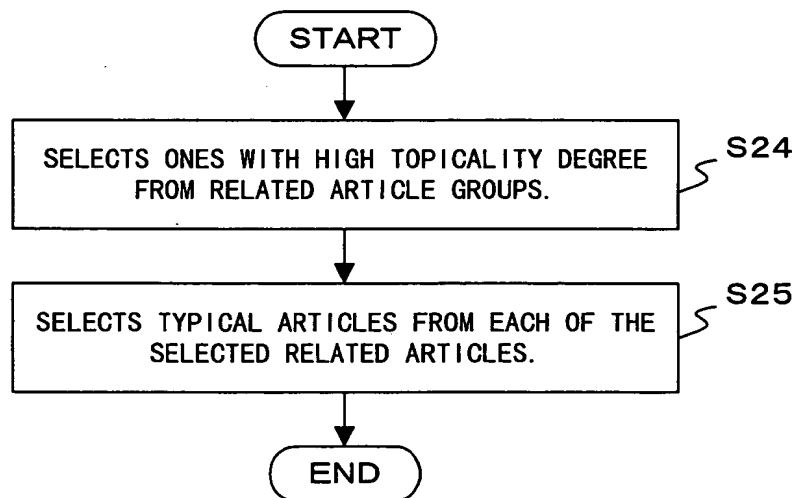
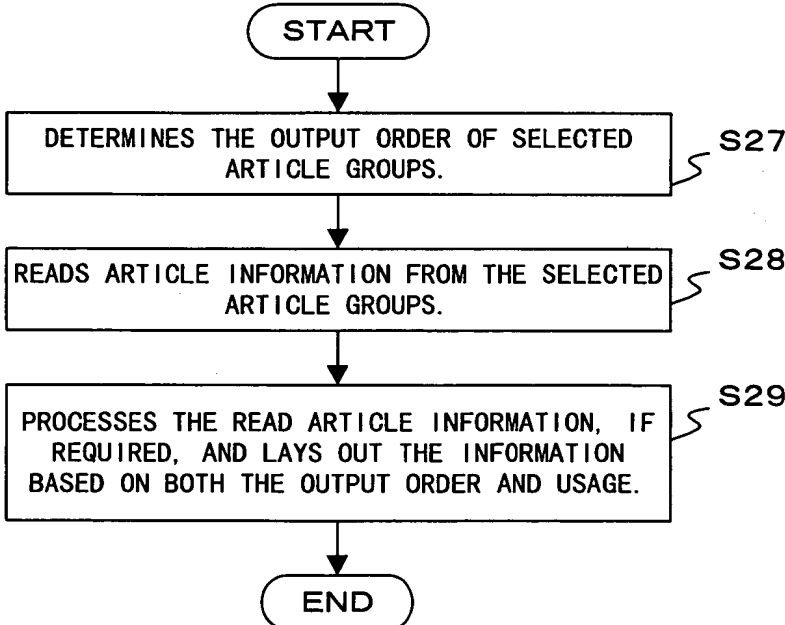
[illegible]

FIG. 17

[illegible]

**FIG. 18**

**10**

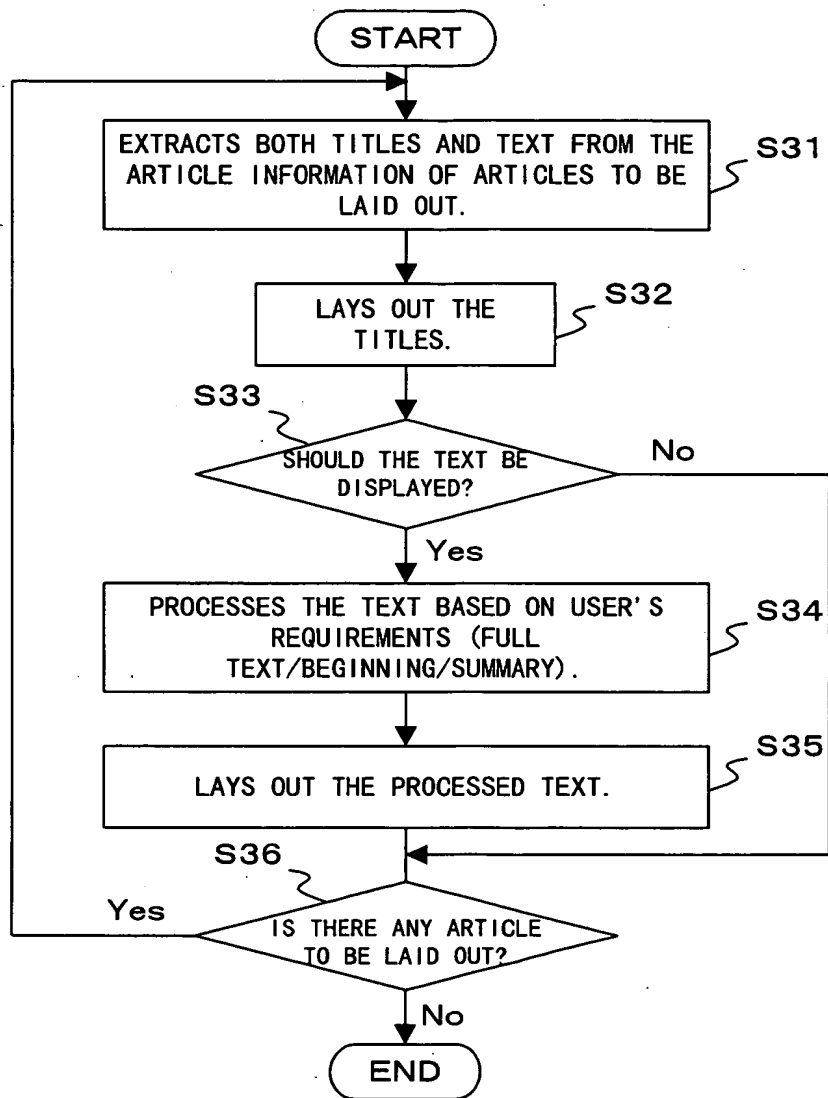


FIG. 19

## RECOMMENDED TOPIC PRESENTING SETTING

• DISTRIBUTION PERIOD OF TARGET ORIGINAL ARTICLE

 MONTH  DAY ~  MONTH  DAY

• NUMBER OF DISPLAYED TOPICS

 TOPICS

• SELECTION FROM TYPICAL ARTICLE • DISPLAY METHOD OF ARTICLES

☒ IN DESCENDING ORDER OF DATE ☐ ALSO DISPLAYS RELATED ARTICLES☐ IN ASCENDING ORDER OF DATE ☒ DISPLAYS THE TEXT OF ARTICLES☐ IN DESCENDING ORDER OF LENGTH ☐ FULL TEXT☐ IN ASCENDING ORDER OF LENGTH ☐ BEGINNINGPER "TOPIC"  ARTICLES ☒ SUMMARY

FIG. 20





- COM JAPAN 1999 OPENED AT TOKYO BIG SITE (O)NEWSPAPER, 02/11/1999)

AN EXHIBITION FOR INFORMATION/TELECOMMUNICATIONS EQUIPMENT AND SREVISES "COM JAPAN 1999"  
HAS BEEN OPENED AT "TOKYO BIG SITE" IN ARIAKE, TOKYO ON 2ND OF THIS MONTH FOR THE NEXT FOUR  
DAYS, i.e., UNTIL 5TH.

#### RELATED ARTICLES

- A COMPREHENSIVE INFORMATION/TELECOMMUNICATIONS EXHIBITION "COM JAPAN 1999" OPENED  
(x x)NEWSPAPER, 03/11/1999)
- COM JAPAN 1999 OPENED (ΔΔ)NEWSPAPER, 03/11/1999)

| RECOMMENDED LIST OF ARTICLES   | RELATED ARTICLES   |
|--|--|
| <ul style="list-style-type: none"> <li>• <u>COM JAPAN 1999 OPENED AT TOKYO BIG SITE</u><br/>(OO NEWSPAPER, 02/11/1999)</li> </ul> <p>AN EXHIBITION FOR INFORMATION/TELECOMMUNICATIONS EQUIPMENT AND SERVICES "COM JAPAN 1999" HAS BEEN OPENED AT "TOKYO BIG SITE" IN ARIAKE, TOKYO ON 2ND OF THIS MONTH FOR THE NEXT FOUR DAYS, I.E., UNTIL 5TH.</p>   | <ul style="list-style-type: none"> <li>• <u>A COMPREHENSIVE INFORMATION/TELECOMMUNICATIONS EXHIBITION "COM JAPAN 1999" OPENED</u><br/>(x x NEWSPAPER, 03/11/1999)</li> <li>• <u>COM JAPAN 1999 OPENED</u>(ΔΔ NEWSPAPER, 03/11/1999)</li> </ul>   |
| <ul style="list-style-type: none"> <li>• <u>ΔΔ MANAGING DIRECTOR HAS BEEN PROMOTED TO NEW OO PRESIDENT, AND MR. x x HAS BEEN TRANSFERRED TO AP PRESIDENT</u>(OO NEWSPAPER, 02/11/1999)</li> </ul> <p>OO HAS ANNOUNCED ON 2ND OF THIS MONTH THAT □□ PRESIDENT HAS BEEN TRANSFERRED TO REPRESENTATIVE CHAIRMAN UNDER DATE OF DECEMBER 1 AND ΔΔ MANAGING DIRECTOR HAS BEEN PROMOTED TO PRESIDENT.</p> | <ul style="list-style-type: none"> <li>• <u>OO TRANSFERRED MR. x x OF OO JAPAN TO THE AREA MANAGER OF ASIA/PACIFIC AREAS</u> (x x NEWSPAPER, 04/11/1999)</li> <li>• <u>□□ CHAIRMAN PROMOTED MR. x x TO THE AP PRESIDENT OF OO-<del>THE</del> FIRST ASIAN</u> (□□ NEWSPAPER, 03/11/1999)</li> </ul> |

FIG. 24



[illegible]

- ARTICLE TO BE NOTED FOR (NOVEMBER 2)
- COM JAPAN 1999 OPENED AT TOKYO BIG SITE
- OTOSHI MANAGING DIRECTOR HAS BEEN PROMOTED TO THE NEW PRESIDENT OF IBM JAPAN AND MR. HOJO PROMOTED TO AP PRESIDENT
- GATEWAY JAPAN PUT ON SALE A PC INTEGRATED WITH A MONITOR, WITH A PRICE OF LESS THAN 90,000 YEN
- LASER FIVE REINFORCED LINUX CLUSTER BUSINESS
- FIJITSU PUT ON SALE A PEN-INPUT PC FOR BUSINESS USES, WITH WINDOWS CE INSTALLED

**F I G. 25**

**BOOKS**

■ ■ ■ FIVE PIECES OF NEWS TO BE NOTED FOR THIS WEEK! ■ ■ ■

- ADM IN U.S.A. ANNOUNCED ATHLON 700MHZ (6/10/1999)
- MICROSOFT DISTRIBUTED A CORRECTION PATCH FOR INCONVENIENCES GENERATED WHEN WINDOWS 98 SE IS TERMINATED (5/10/1999)
- THE RISE IN PRICE OF MEMORIES CONTINUED, AND BOTH I.O. AND MELCO FREED THEIR PRICES (5/10/1999)
- JUSTSYSTEM WILL PUT ON SALE ATOK13 ON NOVEMBER 5 (1/10/1999)
- ELECTRONICS SHOW 1999 OPENED AT MAKUJARI MESSE (6/10/1999)

## ARTICLE TITLES OF ANOTHER JOURNALS

### COMPARISON (SIMILARITY DEGREE CALCULATION)

0

AMD ANNOUNCED ATHLON OPERATED AT 700MHZ AND LED PENTIUM III IN OPERATION FREQUENCY

**x**

APPLE ANNOUNCED THREE KINDS OF IMAC, IMACS SUPPORT AIRPORT OF WIRELESS LAN AND THE GRAPHICS REINFORCED

x

**ELECTRONICS SHOW 1999 OPENED**

### TITLES OF TYPICAL ARTICLES FOR EACH KEY RELATED ARTICLE GROUP

FIG. 26

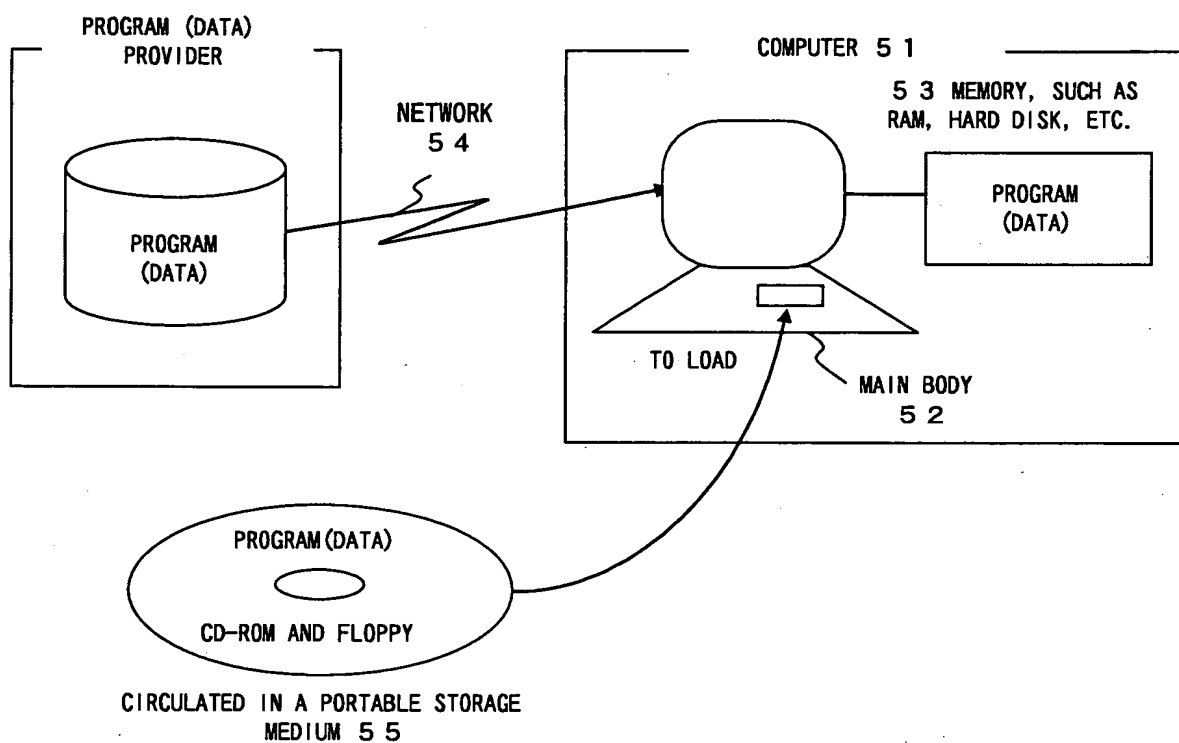


FIG. 27